

Figure 1

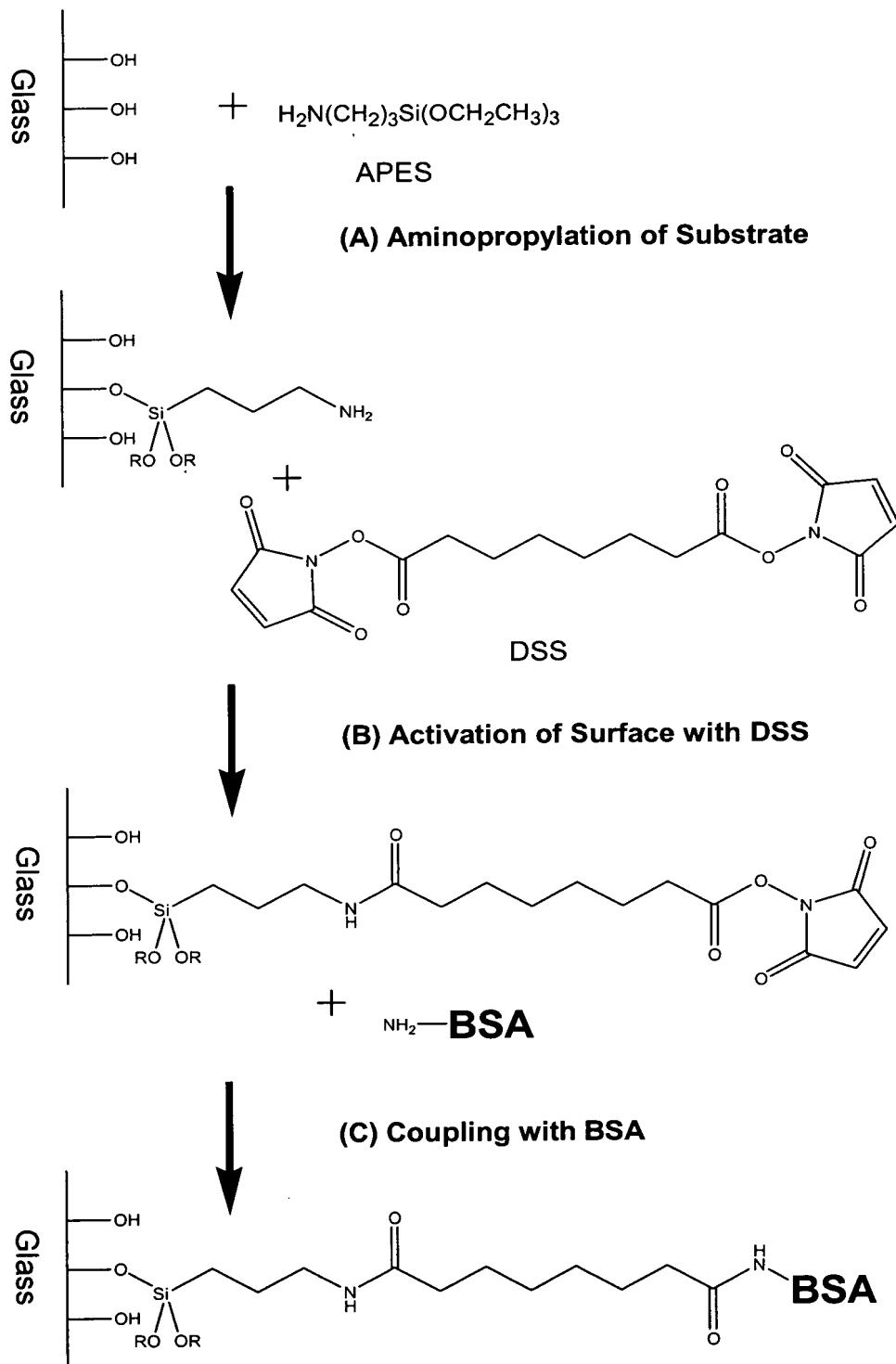


Figure 2

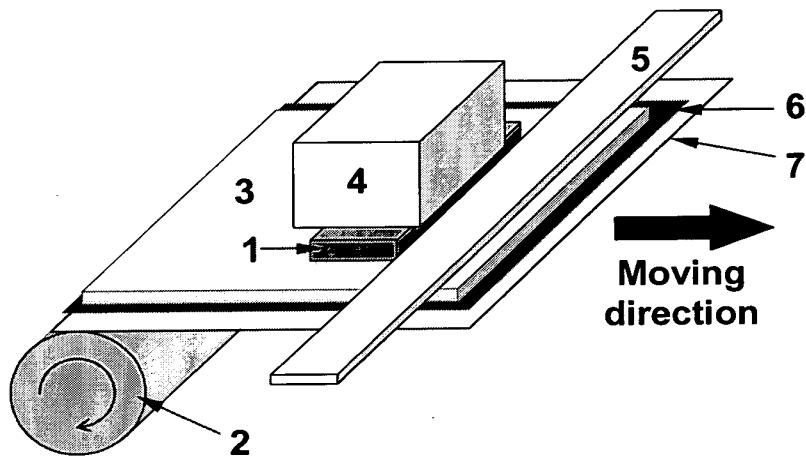
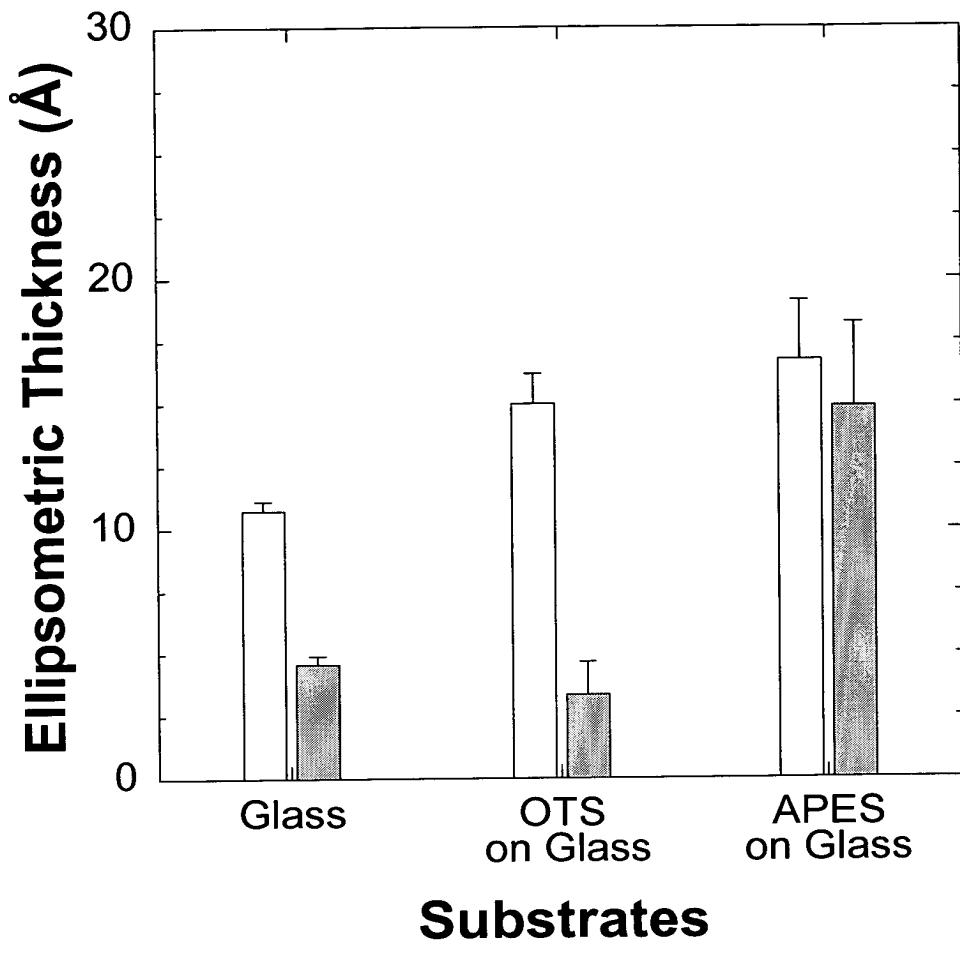


Figure 3



□ = Thickness of Unrubbed Substrate  
■ = Thickness of Rubbed Substrate

Figure 4

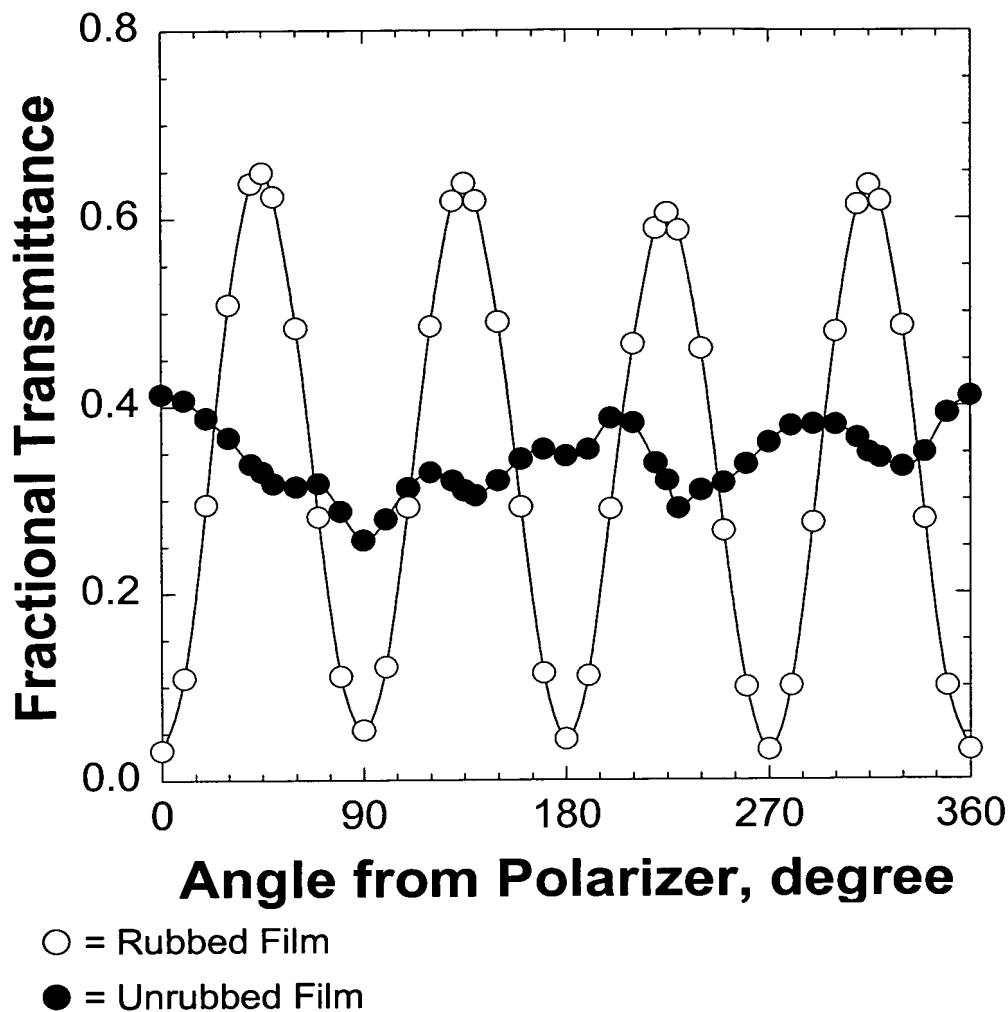


Figure 5

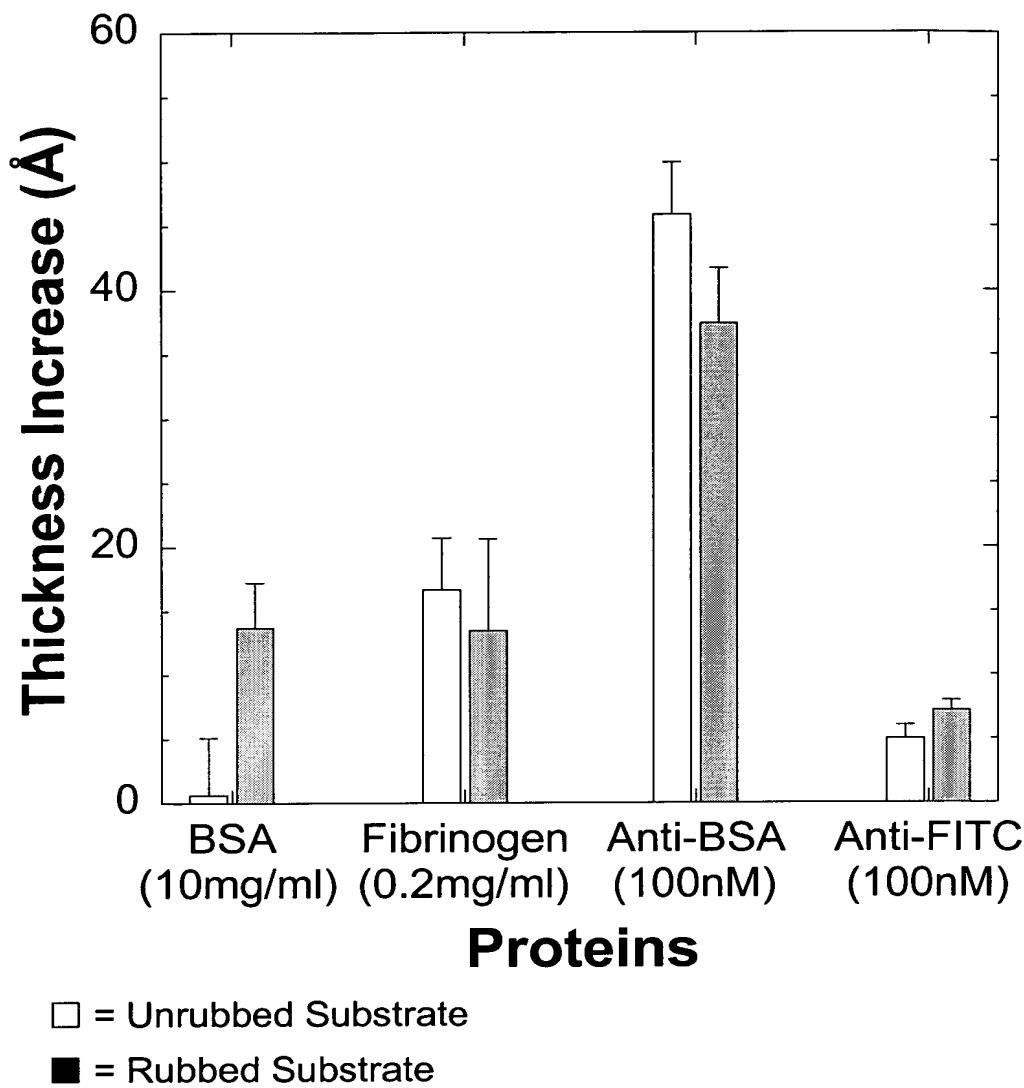


Figure 6

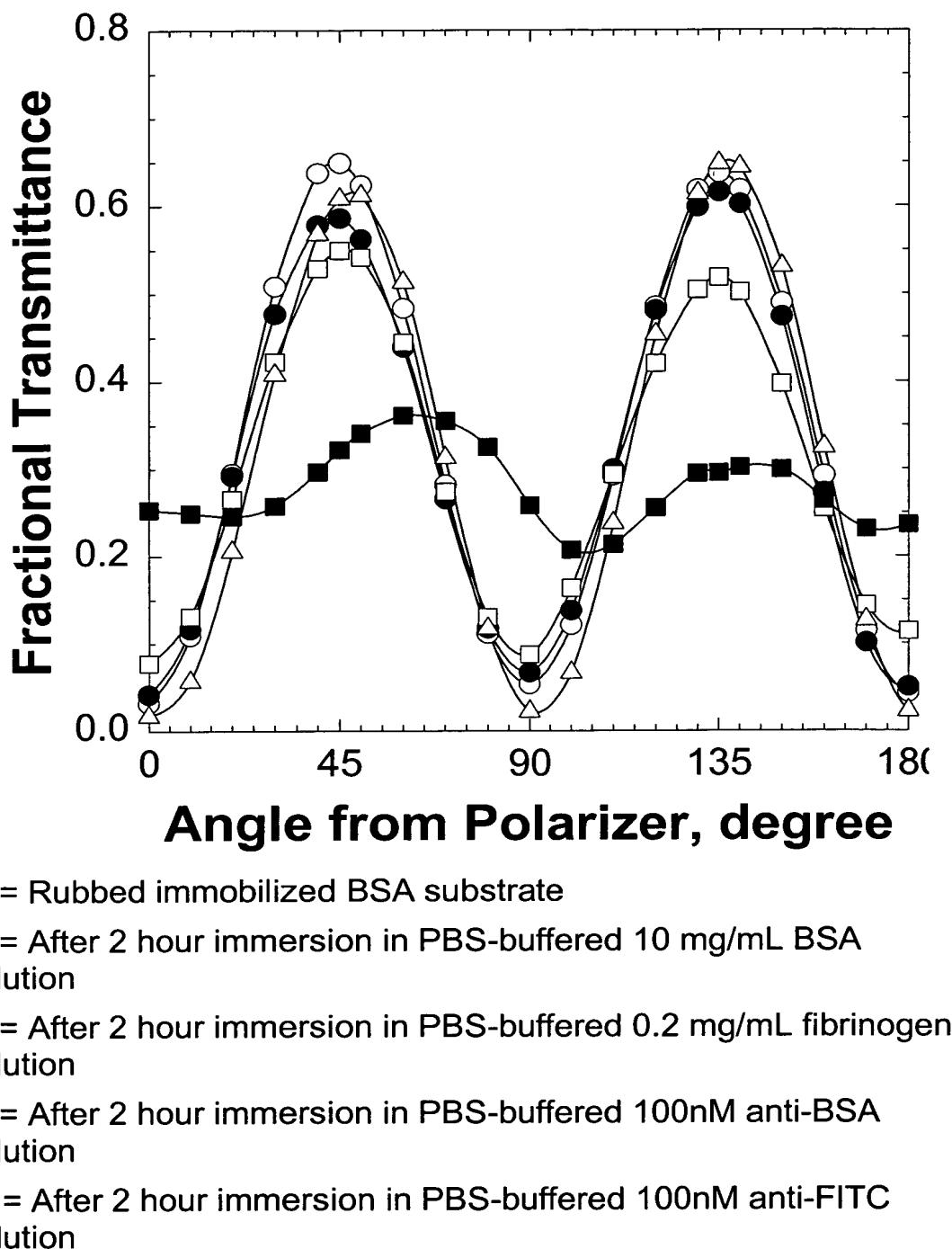


Figure 7

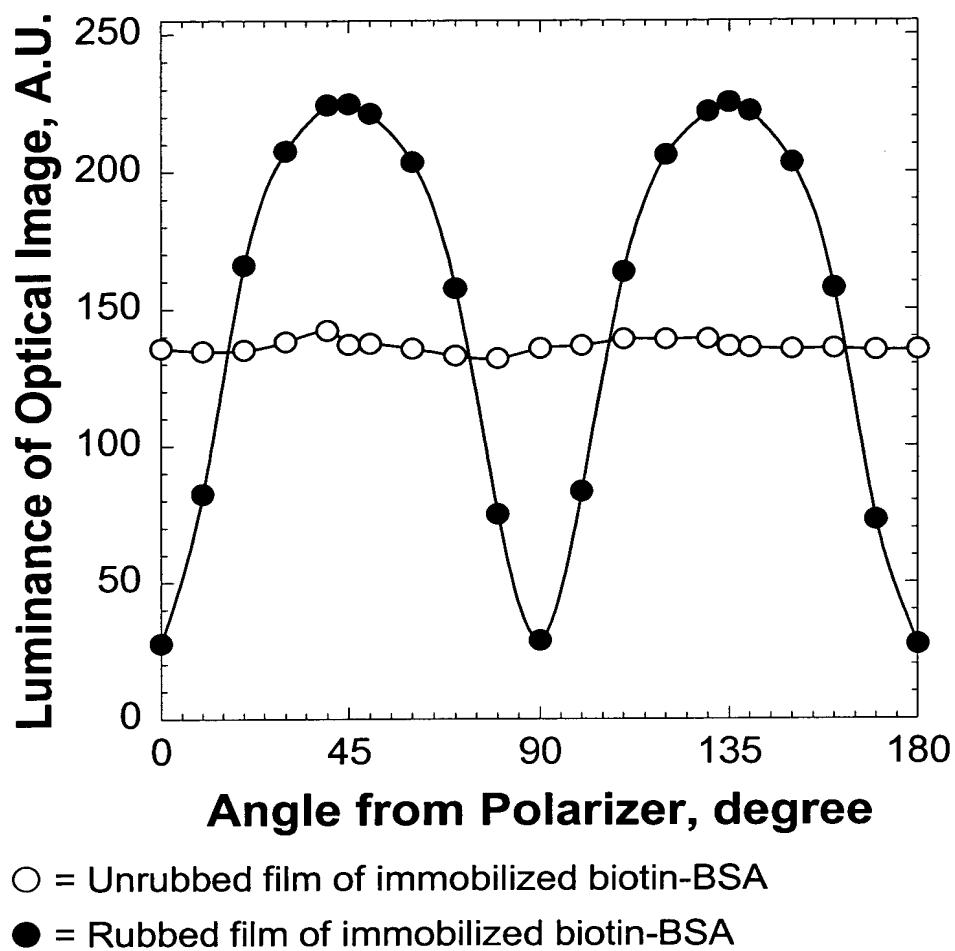
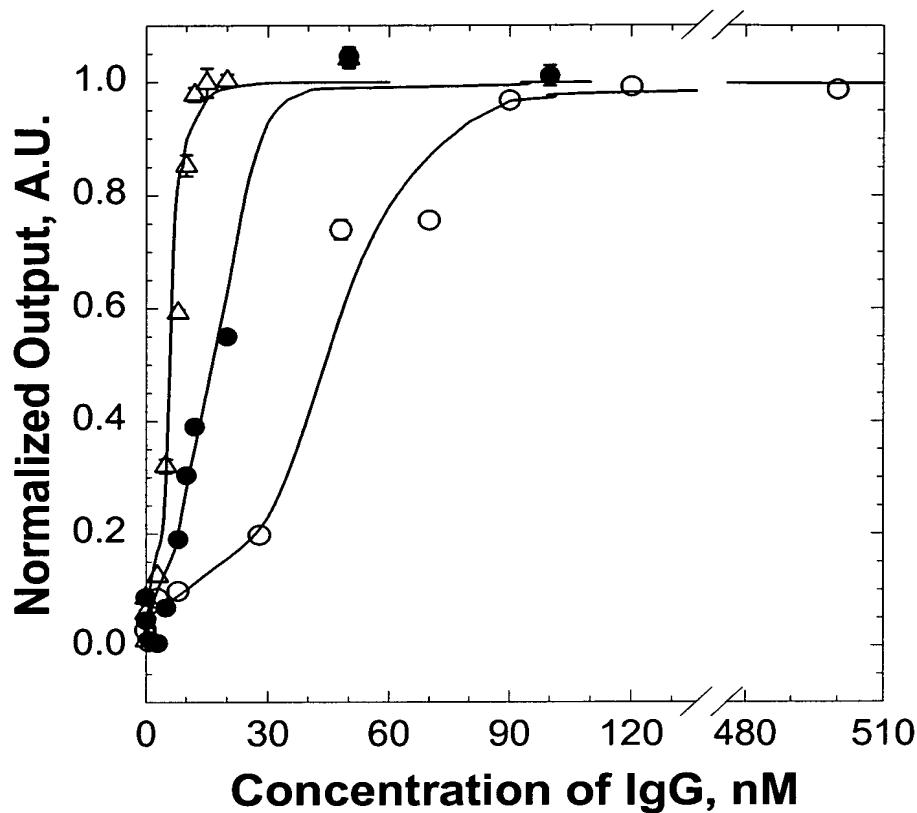


Figure 8

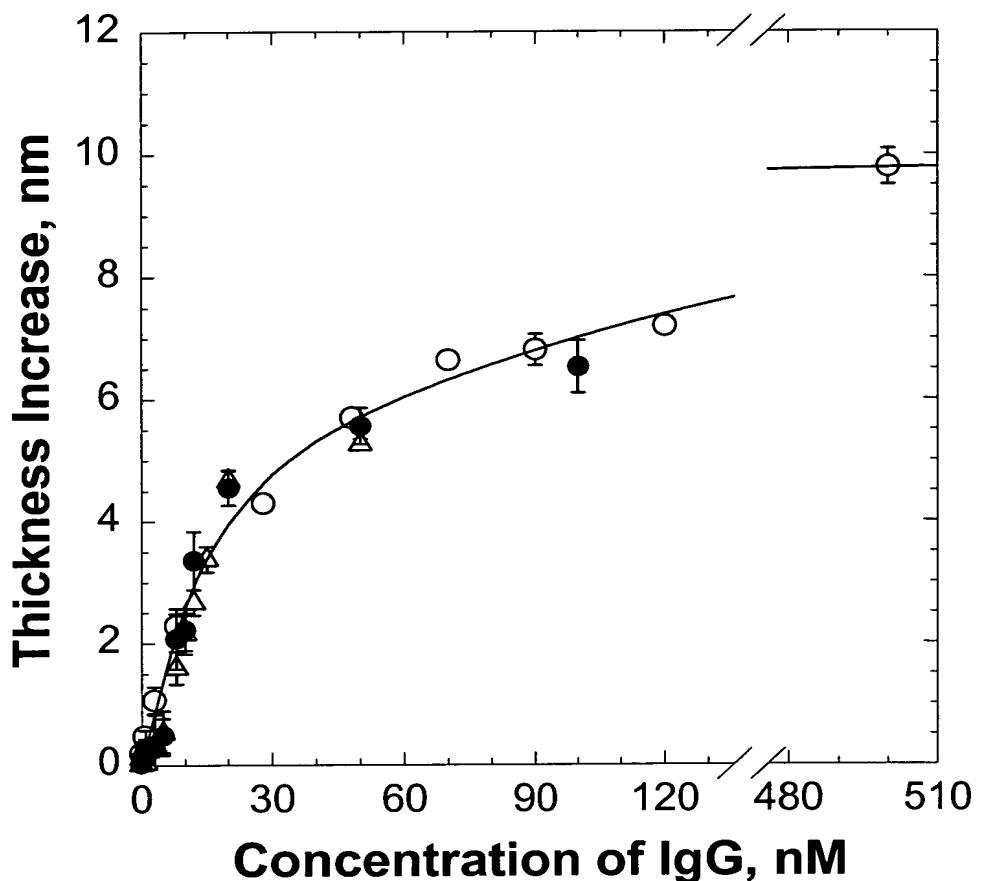


○ = Rubbing conditions of about 2.1 mm/second; 127 mm; and 1,000 Pa

● = Rubbing conditions of about 2.1 mm/second; 127 mm; and 250 Pa

△ = Rubbing conditions of about 2.1 mm/second; 51 mm; and 250 Pa

Figure 9

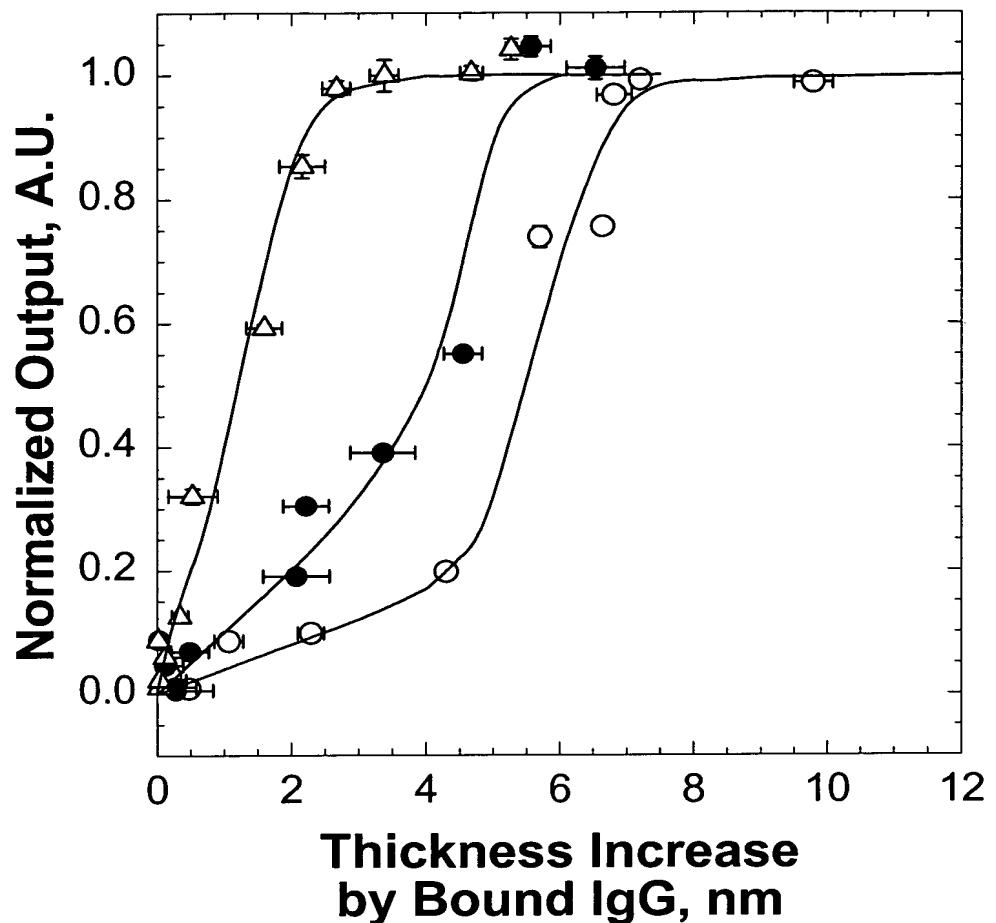


○ = Rubbing conditions of about 2.1 mm/second; 127 mm; and 1,000 Pa

● = Rubbing conditions of about 2.1 mm/second; 127 mm; and 250 Pa

△ = Rubbing conditions of about 2.1 mm/second; 51 mm; and 250 Pa

Figure 10



○ = Rubbing conditions of about 2.1 mm/second; 127 mm; and 1,000 Pa

● = Rubbing conditions of about 2.1 mm/second; 127 mm; and 250 Pa

△ = Rubbing conditions of about 2.1 mm/second; 51 mm; and 250 Pa

Figure 11

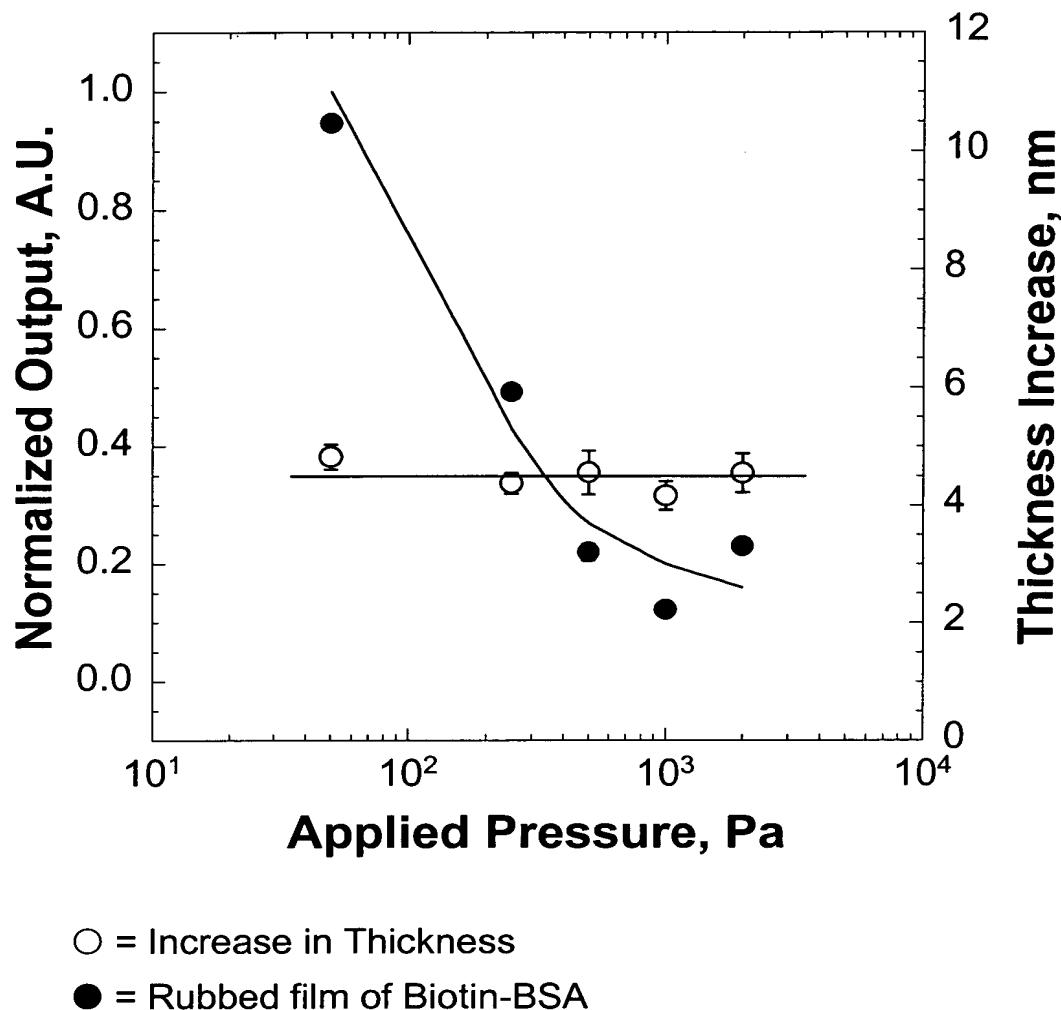
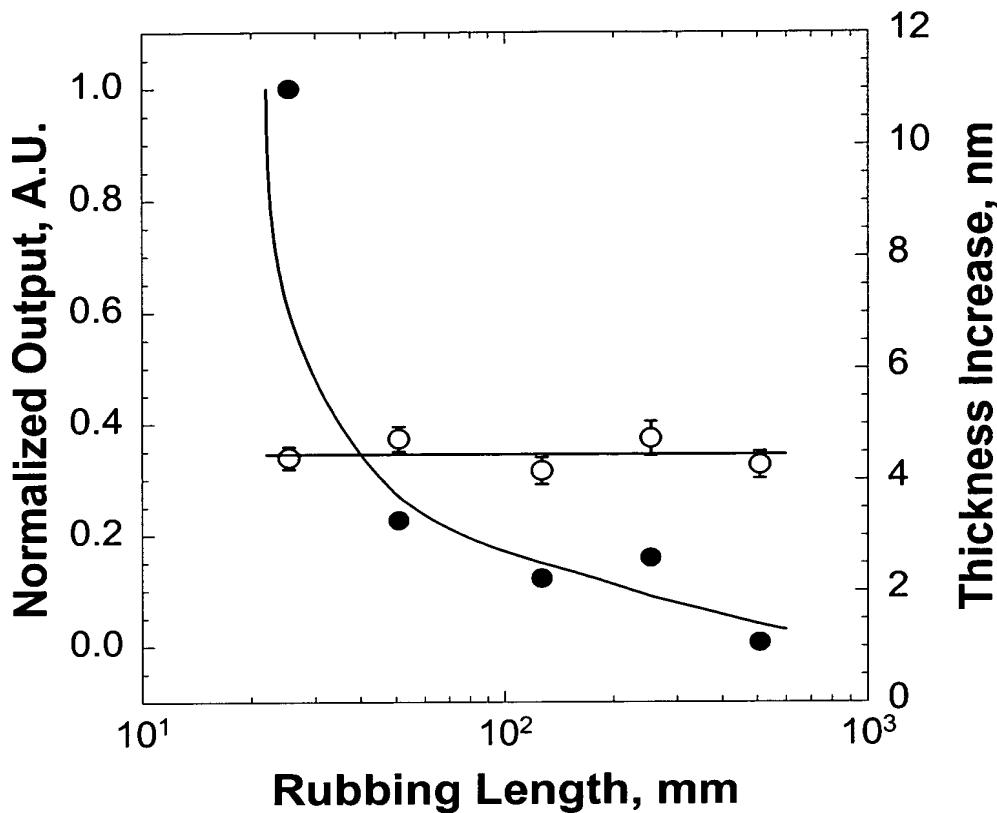


Figure 12



○ = Increase in Thickness  
● = Rubbed film of Biotin-BSA